AT5003597 S/2816/63/000/033/0029/0033

Belenko, V. I.; Belenko, R. M.; Krylov, A. D.; Panferov, I. M.; Romanova, Ya. Ye.; Shilkina, Z. [illegible]

TITLE: Results of Satellite Observations

SOURCE: AN SSSR. Astronomicheskiy sovet. Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 33, 1963. 29-33

TOPIC TAGS: artificial satellite, satellite tracking, satellite tracking camera, satellite 1960 [illegible], NAFA 3s/25 camera, KIM 3 microscope, Ural computer

ABSTRACT: Observations were made on the satellite 1960 [illegible], during August and October [illegible] camera was used. The observer was A. D. Krylov. Measurements [illegible] KIM-3 microscope by R. M. Belenko, I. M. Panferov, and [illegible] Computations were made by the Kiselev method [illegible] sets of three [illegible] and by the Turner method. Ya. Ye. [illegible] computations on [illegible]. Observation times were reduced to standard time. The last column shows possible maximal error in coordinates because of unreliability [illegible] optical center within [illegible] cm. V. I. Belenko and Z. [illegible] Shilkina participated in the work. Results of 125 observations are given in a table, part

Card 1/3

[redacted]

[redacted] Zvenigorodskaya stantsiya Astronomicheskogo soveta AN SSSR
[redacted] Station of the Astronomical Council AN [redacted]

[redacted]

[redacted]

Zvenigorodka Station of the Astronomical
Council AN SSSR

Card 1/3

Belenko, R. M. Krylov, A. Panfe... Romanova,

...vations on the satellites 1961 ... and

...Sheskiy sovet. ...

...satellite, satellite tracking, satellite tracking camera/

... camera, KIM 3 microscope, Ural computer

...were made on the ...

...were ma...

...umn of the table shows maximum ... coordinates

AT5005544

... of unreliability of determining optical center within ... V. I. Belenko ... participated in the work. ... are given ... is reproduced on the ... table.

... tantsiya Astronomicheskogo soveta AN ... (Station of the ... Council, AN SSSR)

ENCL: 01 SUB CODE: SV, ...

OTHER: 000

ACCESSION NR: AT5005549

Station of the Astronomical Council, AN SSSR

	Date		U. T.				
1.	August	3	$23^h11^m00^s.692$	$0^s.005$	$20^h1?^m24^s.8$	$20°08'58''$	12''
.....							
			1960 L1				
76.	August	10	19 01 58.329	0.005	22 18 09.3	07 38 16	16

Card 3/3

A. I., Romanova, G. V., Sentsova, ... 99 98

...ervation of artificial satellites

... Astronomicheskiy sovet. Byulleten' stantsiy opticheskogo ... iskusstvennykh sputnikov Zemli, no. 32, 1963, ...

TOPIC TAGS: artificial satellite, satellite tracking, satellite tracking camera, satellite ..., NAFA-3s/25 camera, KIM 3 microscope, Ural computer

... observations were made on the satellite 1960 ... in June 19... The camera used was a NAFA-3s/25. Observers were A. G. Krylov and V. A. Yurevich. Measurements were made on a KIM-3 microscope by R. M. Belenko and I. M. Panferov. Computations ... made by the Kiselev method for two sets of three reference stars and by ... different cameras ...

AT5003547

... participated in the work. Results of [illegible] observations are given in ... shown on the Enclosure. ...

... AN SSSR ...

SUBMITTED: 02Nov62 ENCL: 01 SUB CODE: SV, DC

OTHER: 000

[illegible] AT50[illegible] ENCLOSURE: 01

Station of the Astronomical Council AN [illegible]

[illegible]	U.T.	Δ T	α	[illegible]	[illegible]	[illegible]
		1960				
[illegible]	$20^h59^m56^s.404$	$\pm 0^s.006$	[illegible]	[illegible]	9"	I
[illegible]	22 29 52.794	0 .006	[illegible]	[illegible]	[illegible]	II

Card 1/3

EWT(1)/EWT(d)/FBD/FSF(h)/FSS-2 ... EWA(a)-2/EWG(v)/

TITLE: none

AN SSSR. Astronomicheskiy sovet. Byulleten' stantsiy opticheskogo ... iskusstvennykh sputnikov Zemli, no ...

... satellite, satellite tracking, satellite tracking camera, ... microscope, ... computer, ...

... Observations were made on the satellite ... in July and August 196?.

... camera was used. Observers were A. ... Krylov and V. A. Yurevich.

... M. Belenko ... microscope.

... by the Kiselev method ... stars

... negatives ...

... in the last column ...

... and ... participated ... results of

A [illegible] AT5005548

[illegible] observations are presented in a table, part of which is reproduced on the [illegible] art. has [illegible] table.

ASSOCIATION: Stantsiya Astronomicheskogo soveta AN SSSR (Station of the Astronomical Council, AN SSSR)

SUBMITTED: [illegible] Dec62 ENCL: 01 SUB CODE: SV, DC

NO REF SOV: 000 OTHER: 000

Card 2/3

A[illegible] N[illegible] AT5005548

ENCLOSURE: 01

Station of the Astronomical Council AN SSSR

No.	Date		U. T.	Δ T	α 1950.0	δ 1950.0		
				1966				
1.	July	29	$20^h28^m26^s.532$	$\pm 0^s.005$	$22^h31^m35^s.0$	$14^\circ 32' 19''$		I
.....								
187.	August	8	23 23 43.768	0.007	23 57 11.7	-18 46 05	16	II

Card 3/3

ION NR: AT5003775 S/2816/65/000/036/0031/0033

AUTHORS: Belenko, R. M.; Krylov, A. G.; Panferov, I. M.; Sentsova, Yu. Ye.; Shilkina, Z. S.; Yurevich, V. A. 60

[Results of Satellite Observations]

SOURCE: Astronomicheskiy sovet. Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 36, 1963, 31-33

TOPIC TAGS: artificial satellite, satellite tracking camera, satellite track analysis, satellite 1961 α_1, satellite 1961 α_2, satellite 1962 β_1, satellite 1962 β_2, satellite 1960 ξ_1, NAFA [illegible] camera, KIM-3 microscope, [illegible] microscope, Ural-1 computer

[illegible] observations were made in April, May, and June 1962 of the satellites 1961 α_1, 1961 α_2, 1962 β_1, 1960 ξ_2, 1960 ξ_3, and 1962 β_2. The observers were A. G. Krylov (indicated by II in the table) and V. A. Yurevich (I in table). Both [illegible] NAFA-3S cameras. Measurements were made by R. M. Belenko with a KIM-3 [illegible] V. Panferov with a KIM-[illegible]. [illegible] was done by [illegible] by Yu. Ye. Sentsova using a [illegible] computer. For

L 5

ACC NR: AT5003773

... of the computed coordinates, the coordinates of one reference star were ... with the coordinates of points on the ... track. The next ... of the table shows deviation of the computed coordinates of the ... from the coordinates given in the ... of these deviations ... were reduced to ... kina. ... presented ... for the ...

... Astronomicheskiy sovet AN SSSR (Stantsiya No. ...) The Astronomical ... Station No. 1072

SUBMITTED: ... ENCL: 01 SUB CODE: SV, DC

NO REF SOV: 000 OTHER: 000

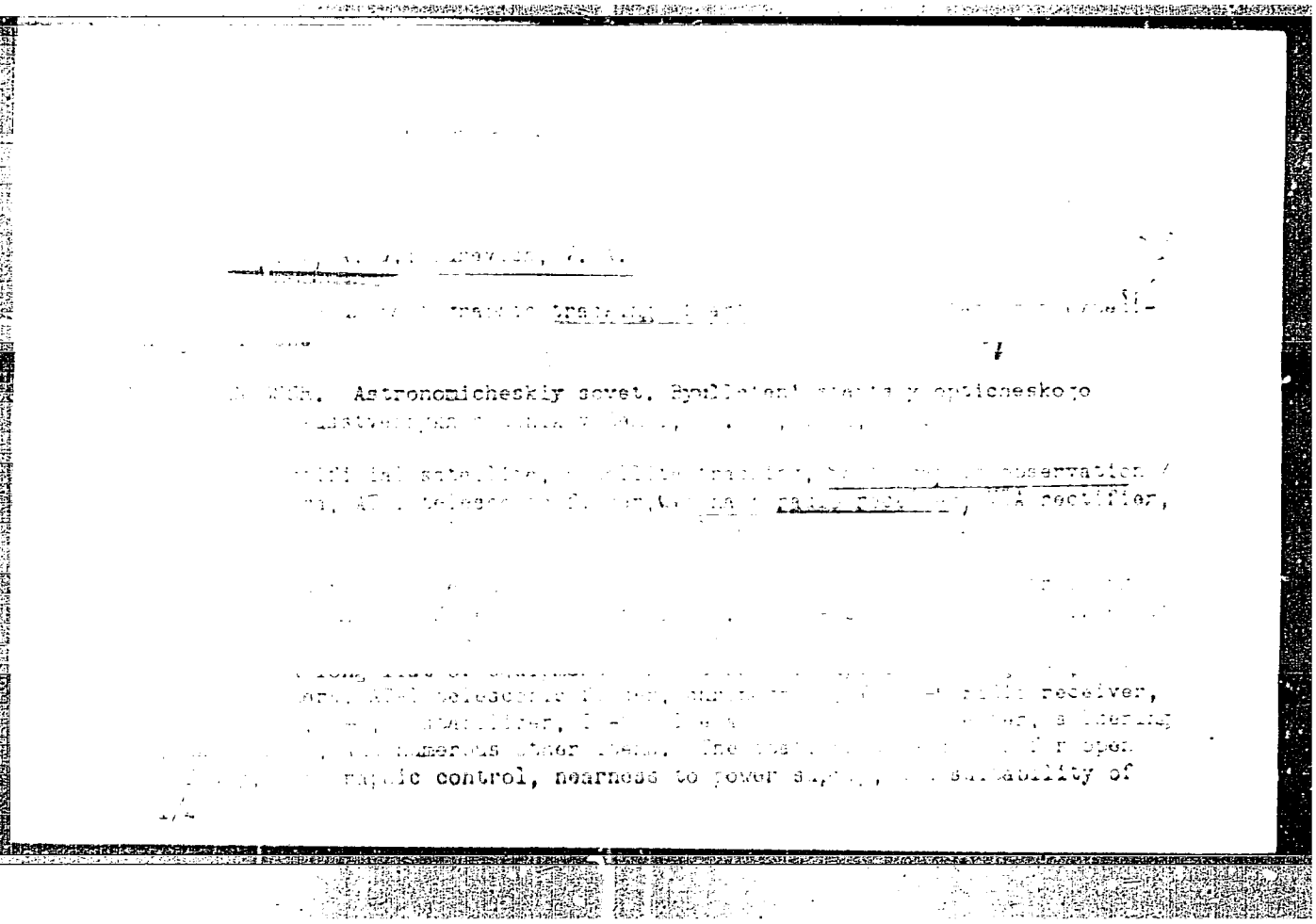
The Astronomical Council of the AN SSSR
(Station No. 1072

						Camera
			1961 α ε$_1$			
1962						
April	20	$23^h44^m25^s.277$	$\pm 0^s.03$	$18^h40^m58^s.9$	14°	II
June	20	20 44 33.193	±0.01	22 2[illegible] 16.1	[illegible]	II

KRYLOV, A.G.

Classification of cedar forests in the Altai. Izv. SO AN SSSR no.8 Ser. biol.-med. nauk no.2:40-47 '64 (MIRA 18:1)

1. Institut lesa i drevesiny Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.



rapid control, nearness to power s[illegible] suitability of

AT5012011

[illegible] living, working, and maintenance [illegible] in the Kurile Islands. [illegible]

[illegible]: Astronomicheskiy sovet, AN SSSR (Astronomical Council, AN USSR)

[illegible]: 20 Mar 64 ENCL: 00 SUB CODE: DC, ES

[illegible]: 005 OTHER: 000

Card 2/2

ACC NR: AP6014954 SOURCE CODE: UR/0227/65/000/008/0023/0025

AUTHOR: Yeliseyev, Yu. A.; Voroshilin, Ye. A.; Biyevets, N. L.; Krylov, A. G. 24 B

ORG: none

TITLE: Construction of a container glassware storage warehouse of reinforced concrete

SOURCE: Promyshlennoye stroitel'stvo, no. 8, 1965, 23-25

TOPIC TAGS: reinforced concrete, construction, lacquer, corrosion protection

ABSTRACT: A description is given of the construction of a 24 X 48 meter warehouse with supporting frame made of prefab arches each consisting of six straight sections of reinforced concrete, bolted together. The prefab sections were compacted, heat-hardened for 4 hours at 70°C, reinforced with steel mesh and given an anti-corrosion coating of bituminous lacquer. They were then stored in special holding racks, in which they were also transported to the construction. Photographs show the forming, transporting and assembly of the individual straight sections into arches, as well as the completed warehouse. A table shows the expenditure of materials manpower and money per square meter of horizontal projection involved in the construction. Orig. art. has: 5 figures and 1 table. [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 1/1 BK UDC: 624.023.8:725.35

USSR / Forest Science. Biology and Typology of Trees. K-2

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77487

Author : Krylov, A. G.
Inst : West Siberian Branch, AS USSR
Title : On Types of Dark Conifer Forests in the Biya River Basin

Orig Pub : Tr. po lesn. kh-vu Zap. Sibiri. Zap.-Sib. fil AN SSSR, 1957, vyp. 3, 167-174

Abstract : Fir and cedar types of forest developed in the summer of 1956 in the Biya River Basin are briefly characterized. In the group of shortgrass variety firs, there were noted fern-sedge, sanicle-wood sorrel poplar fir. In the group of mixed firs, spiraea-bracken-herbaceous fir were noted. In the cedar forests, there were isolated: cedar-whortleberry, herbaceous-mossy cedar, wood sorrel-mossy cedar (group of mossy cedars); fern-sedge cedar (group of grass variety cedars); fern-beach grass cedar and herbaceous

Card 1/2

KRYLOV, A.G.

Moscow Automobile Plant at the 40th anniversary of the October Revolution. Avt.i trakt.prom. no.10:8-13 O '57. (MIRA 10:12)

1. Moskovskiy avtozavod imeni Likhacheva.
(Moscow--Automobile industry)

KRYLOV, A.G.

Automatic machines in shops of the Likhachev Automobile Plant. Za rul. 17 no.8:3-5 Ag '59. (MIRA 12:12)

1. Direktor avtomobil'nogo zavoda im. I.A.Likhacheva.
(Moscow--Automobile industry)
(Automation)

CHUMAKOV, N.M., red.; KIREYEV, M.I., red.; AKULOV, Ye.F., red.; IVANOV, N.N., red.; KNYAZEV, P.I., red.; CHICHILO, I.K., red.; KRYLOV, A.G., red.; GLUSHKO, G.I., tekhn. red.

[Safety engineering regulations for operating and servicing electrical systems of industrial enterprises required for the industrial plants of economic councils, ministries, and departments]Pravila tekhnicheskoi ekspluatatsii i bezopasnosti obsluzhivaniia elektroustanovok promyshlennykh predpriiatii; obiazatel'ny dlia promyshlennykh predpriiatii sovnarkhozov, ministerstv i vedomstv. Utverzhdeny 10 fevralia 1961 g. Moskva, Dnepropetrovskoe knizhnoe izd-vo, 1962. 279 p. (MIRA 16:3)

1. Russia (1923- U.S.S.R.)Glavnoye energeticheskoye upravleniye.

(Electric power distribution--Safety regulations)

KRYLOV, A.I.

New type of roller feed. Kuz.-shtam. proizv. 3 no.11:41-42 N '61. (MIRA 14:11)
(Feed mechanisms) (Forging machinery)

KRYLOV, A.I.

The A522A, A520 and A521 automatic muff-type spring-coiling machines. Biul.tekh.-ekon.inform. no.12:33-35 '61. (MIRA 14:12)
(Springs (Mechanism))

KRYLOV, A.I., inzh.

Modernizing the engaging friction clutch. Vest.mash. 41 no.7:88 Jl '61. (MIRA 14:6)

(Clutches (Machinery))

L 19638-63 EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pr-4 JD
ACCESSION NR: AP3007063 S/0056/63/045/003/0464/0468

AUTHORS: Zherebin, Ye. A.; Krylov, A. I.; Polikarpov, V. I.; Yuzvuk, N. N. 69 63

TITLE: Investigation of the gamma radiation 19 from Cs-140

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 464-468

TOPIC TAGS: Cs-140, gamma radiation, short-lived fragment , spectral line

ABSTRACT: A method for investigating the gamma rays from the short-lived (half-life 66 sec) fragment Cs^{140} is described, along with the gas loop used to supply the Xe and Kr to the measurement place and to enrich the mixture of the decay product with the investigated fragment product. The Cs^{140} was investigated by a high-speed chemical separation of the cesium. The lines 0.59 ± 0.01, 0.88, 1.14, 1.62, 1.85, 2.06, 2.32, 2.72, 3.15 MeV were observed as a result in

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L 19638-63
ACCESSION NR: AP3007063

6

the gamma rays. "In conclusion, the authors thank Ye. A. Tamonov and O. V. Chubakov for useful discussions and advice, and also A. N. Draskov, A. G. Dudoladov, Ye. A. Gershanov, and A. V. Morozov for directly participating in the experiments." Orig. art. has 6 figures.

ASSOCIATION: None

SUBMITTED: 29Mar63 DATE ACQ: 080ct63 ENCL: 01

SUB CODE: PH NO REF SOV: 001 OTHER: 002

Card 2/02

PROCESSES AND PROPERTIES INDEX

22

Mineral oil that can be removed easily from fabrics. A. I. Krylov and N. K. Nosnikova. *Prom. Lubyanykh Tkanei* 1939, No. 7, 30; *Khim. Referat. Zhur.* 1940, No. 1, 113.—Coarse and bleached yarn were satd. with 6 grades of mineral oil and made into cloth No. 216. The cloth was boiled in lime water and twice in alkali, washed, alcoholized, acidified, starched and dried. The oil Vol'ta L is most easily removed, and is recommended for lubricating spinning and weaving machines.

W. R. Henn

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

BRAGA, D. T., Eng.; KRYLOV, A. I.; SLUSHAYENKO, E. I.

Knitting Machines

Single-process method of making socks with flat knitting machines. Leg. prom. 12 No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

KHOLODOV, Vladimir Ivanovich; KRYLOV, Aleksandr Ivanovich; YEPIMAKHOVA, M.Ya., red.; LEONOVA, L.P., tekhn.red.

[Through the years (1858-1958)] Skvoz' gody, 1858-1958 gg. Vladimir, Vladimirskoe knizhnoe izd-vo, 1958. 97 p. (MIRA 12:9)
(Sobinka--Textile workers)

KOZENKO, K.M., inzh.; KRYLOV, A.I., inzh.; BELOUS, N.G., inzh.

New techniques used in manufacturing warp-knitted artificial furs. Izv.vys.ucheb.zav.; tekh.leg.prom. no.6:75-85 '58. (MIRA 12:4)

1. TSentral'naya nauchno-eksperimental'naya laboratoriya trikotazhnoy promyshlennosti Gosplana USSR.
(Fur, Artificial)

KOZENKO, K.M.; KRYLOV, A.I.; HELOUS, N.G.

Developing the technology of knitting pile fabrics for artificial fur. Tekst.prom. 19 no.1:44-47 Ja '59. (MIRA 12:1)
(Knitting, Machine) (Fur, Artificial)

SMIRNOV, Leonid Stepanovich; GONTARENKO, Aleksandr Nikolayevich; GORDIYENKO, Mariya Georgiyevna; KRYLOV, Aleksandr Iosifovich; NOVAK, Nikolay Stepanovich; LYASHCHENKO, T.V., red.; STARODUB, T.A., tekhn. red.

[Manufacture of artificial fur] Proizvodstvo iskusstvennogo mekha. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1961. 138 p. (MIRA 15:4)

(Artificial fur)

KRYLOV, A.I. [Krylov, O.I.]; SKIBA, L.A.

Economic efficiency of the manufacture and use of nylon yarn produced with a simplified method. Leh. prom. no.4:66-69 O-D '65. (MIRA 19:1)

L 29931-66 EWP(k)/EWI(a)/EWI(m)/EWP(h)/T/EWP(l)/EWP(v)/EWP(t)/ETI JD/JW

ACC NR: AP6018011 (A) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTOR: Voronin, G. I.; Slotin, V. I.; Zaretskiy, B. S.; Krylov, A. I.; Shvetsov, P. N.; Barannikov, G. I.; Eskin, G. I.

ORG: none

TITLE: Ultrasonic unit for fluxless brazing of metals. Class 49, No. 181967

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

TOPIC TAGS: brazing, metal brazing, ultrasonic brazing, brazing unit

ABSTRACT: This Author Certificate introduces a unit for fluxless brazing of metals equipped with a heater and ultrasonic emitter. To increase efficiency, the ultrasonic

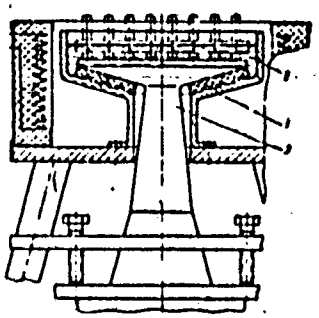


Fig. 1. Fluxless brazing unit

1 - Crucible; 2 - brazing alloy;
3 - ultrasonic emitter.

Card 1/2 UDC: 621.791.351.6.03

L 29931-66

ACC NR: AP6018011

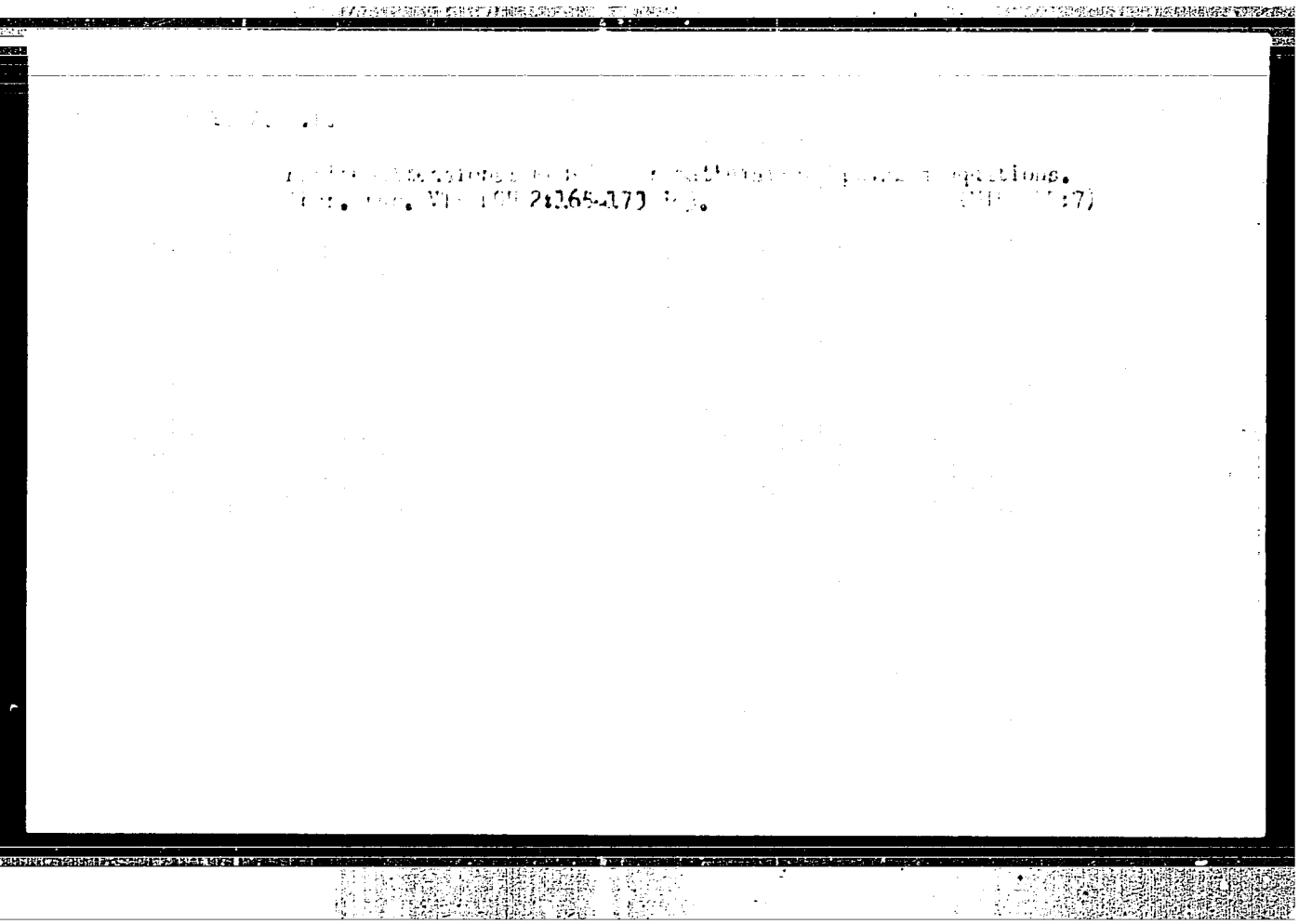
emitter is located inside the crucible containing molten brazing alloy, forming the bottom of the latter (see Fig. 1.). Orig. art. has: 1 figure. [AZ]

SUB CODE: 11,13/SUBM DATE: 29Jan65/ ATD PRESS: 5011

Card 2/2

KRYLOV, A.K.

The KBK-1,0 combine for bean harvesting. Biul.tekh.-ekon.inform. no.2:55-56 '58. (MIRA 11:4)
(Combines (Agricultural machinery))
(Beans--Harvesting)



[illegible]

Numerical study of liquid flow between rotating cylinders. Sbor. rab. VTS MGU 2:174-181 '63. (MIRA 17:7)

KRYLOV, A.L.; MISNIK, A.F.

Stability of viscous flow between two rotating cylinders. Sbor. rab. VTS MGU 2:182-189 '63. (MIRA 17:7)

AUTHOR: Krylov, A.L. 20-1-10/54

TITLE: The Boundary Value Problem for the Nonlinear Equation of Second Order in a Bounded Domain with a Degenerate Boundary. (Pervaya Krayevaya zadacha dlya nelineynogo ellipticheskogo uravneniya vtorogo poryadka ogranichennoy oblasti s vyrozhdennoy granitsey)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 1, pp.42-44 (USSR)

ABSTRACT: The present paper treats this problem for the Lagrange equation of a certain variation problem. In contrast to the linear case the boundary values in the case of a very large class of non-linear problems may be assumed on varieties with any dimension number, provided that this dimension number is smaller than the dimension number of the initial space. E.g. the boundary in the two-dimensional case may consist of a closed line bounding the domain and of a finite number of smooth lines within this domain. The obtained solutions are continuous in such a domain and in the case of smooth integrands they are solutions in the classical sense. Reference is made to some relevant earlier works. The author here examines the following example: K signifies the circle of unit radius on a plane with a cut-out center in the origin of coordinates and

Card 1/3

The Boundary Value Problem for the Nonlinear Equation of Second Order in a Bounded Domain with a Degenerate Boundary. 20-1-10/%

$I(u) = \iint_K \{\alpha(u_x^2 + u_y^2)^2 + \beta(u_x^2 + u_y^2)\}.dxdy$ applies. The function $u_o \in w_4^{(1)}$ is sought which on the boundary K assumes the values $\varphi(\gamma)$ when $x^2 + y^2 = 1$, φ_o when $x^2 + y^2 = 0$. In this connection $\varphi(\gamma)$ is attainable (allowable) for $w_4^{(1)}$. When $\alpha = 0$, this problem has a solution. When $\beta > 0$, $\alpha > 0$ the problem is regular, i.e. in the case of a smooth solution it is reduced to a non-degenerate elliptical equation. In the case of $\varphi(\gamma) = 1$ and $\varphi_o = 0$ the solution $u(x,y) = u(\sqrt{x^2 + y^2}) = u(r)$ satisfies the equation $u'(r)^3 + u'(r) = c/r$, $c > 0$, $\gamma > 0$.

A solution $u_o(x,y)$ of the variation problem is determined here which takes the assumed values on the boundary of K and this $u_o(x,y)$ is a unique solution of the variation problem smooth in K. A relevant theorem is given. This theorem can be generalized to the case that F(in the above-mentioned formula) depends on independent variables and functions, and it permits a considerable weakening of the other conditions. There are 6 Slavic references.

Card 2/3

The Boundary Value Problem for the Nonlinear Elliptic Equation of Second Order in a Bounded Domain with a Degenerate Boundary. 20-1-10/54

ASSOCIATION: Moscow State University imeni M.V.Lomonosov (Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova)

PRESENTED: January 28, 1957 by S.L.Sobolev, Academician

SUBMITTED: January 26, 1957.

AVAILABLE: Library of Congress

Card 3/3

KRYLOV, A.L., Cand Phys Math Sci -- (dis.) "First boundary [illegible] problem for certain quasi-linear equations in a field with degenerated boundary." Mos, 1958, 8 pp (Mos State Univ im M.V. Lomonosov. Mechanics Mathematics Faculty) 150 copies Bibliography at end of text (11 titles) (KL, 27-58, 102)

AUTHOR: Krylov, A. L. 20-118-5-9/59

TITLE: Propagation of Limit Equilibrium in the Axially-Symmetrical Two-Dimensional Elastic-Loose Body Case (Osesimmetricheskaya ploskaya uprugo-sypuchaya zadacha rasprostraneniya sostoyaniya predel'nogo ravnovesiya)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp. 882-885 (USSR)

ABSTRACT: § 1: The setting of the problem and the hypothesis of motion: The author here investigates the two-dimensional deformed state of a medium which fills the external part of the circle of unit radius on the x,y-plane. In the case of low stresses the medium is described by the equations of linear elasticity theory, in the case of greater stresses, however, the medium adopts loose properties. Starting at the moment $t = 0$ the sector begins to swell according to the law $r = r_1(t), r_1(0)=1$, and to rotate according to the law $\Psi = \Psi_1(t), \Psi_1(0) = 0$. Here Ψ_1 denotes the rotation angle of

Card 1/4

the surroundings of the sector. The stress and the displacement in the elastic and in the loose zone are to be determined as well as of the boundary $\gamma(t)$ between these zones, furthermore the admissibility of the boundary conditions $\{r_1(t), \Psi_1(t)\}$ for the maintainance of the equilibrium on the boundary is to be investigated. Two hypotheses of motion were used for the solution of this problems: the hypothesis by Mises (Mizes), and a hypothesis by the author which runs as follows: The agreement of the direction of the maximum displacement velocity with one direction of the slide lines (i.e. with those forming the smallest angle with the limit on the boundary) is suggested, at the same time maintaining the incompressibility condition. The problem without rotation is instable in the hypothesis discussed here; in the case of presence of a small rotation the movement differs considerably from mere swelling. § 2 solves the problem with swelling explicity for both hypotheses. The solution of the problem by means of the hypothesis of Mises (Mizes) leads to a paradoxical conclusion on the unlimited capability of loosening of the

medium for great radii of the sector. § 3 gives the equations of equilibrium which are to be integrated in the solution of the problem with rotation in the loose zone. In the elastic zone the solution is described by formulae by S. Sobolev (Ref 1). Then a differential equation for the determination of the displacement is given on the condition of the author's hypothesis. If the stability of the stress tensor, the displacements, and of the velocities is used for γ (t), a closed system of equations is obtained for the determination of the unknown time functions. All unknown functions are finally expressed by the solution A (t) of the Cauchy problem for an integral-differential equation given here. § 4 investigates quite briefly the admissibility of boundary movement. In the rotation of the boundary with given velocity the slide lines touch the boundary. In the case of increasing velocity the boundary of the medium ruptures along the slide lines.
There are 4 references, 4 of which are Soviet

Propagation of Limit Equilibrium in the Axially-Symmetrical Two-Dimensional Elastic-Loose Body Case 20-~~118-5-9~~/59

PRESENTED: September 5, 1957, by S. L. Sobolev, Member, Academy of Sciences USSR

SUBMITTED: December 24, 1955

Card 4/4

AUTHOR: Krylov, A.L. 20-119-5-6/59

TITLE: Boundary Value Problems and Biorthogonal Decompositions in Banach Spaces (Krayevyye zadachi i biortogonal'nyye razlozheniya v banakhovykh prostranstvakh)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 5, pp 865-867 (USSR)

ABSTRACT: With the aid of the theorem of Calderon and Zygmund [Ref 3] on the conditions for the boundedness of the singular integral operator J:

$$Jf \equiv \int_{\Omega} k(P,Q)f(Q)dQ$$

the author succeeds in extending essentially the results of Vishik [Ref 2] basing on the use of the orthogonal projections. While Vishik at first obtained a biorthogonal decomposition of the considered space on a geometric way and then applied it to the solution of boundary value problems, the author at first solves the boundary value problem with the aid of the theorem of Calderon-Zygmund, wherefrom then there follows the decomposition. The representation is made with the example of the Laplace equation, but it remains true for equations of higher order and also for systems with smooth coefficients.

Card 1/2 There are 7 references, 5 of which are Soviet, 2 American.

Boundary Value Problems and Biorthogonal Decompositions in Banach Spaces 20-119-5-6/59

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova (Moscow State University im.M.V.Lomonosov)
PRESENTED: November 23, 1957, by S.L.Sobolev, Academician
SUBMITTED: November 22, 1957

Card 2/2

AUTHOR: Krylov, A.L.

SOV/20-121-5-7/50

TITLE: On a Necessary and Sufficient Condition that a Function Belong to the Class $W_p^{(1)}$ of Sobolev (Ob odnom neobkhodimom i dostatochnom priznake prinadlezhnosti funktsii klassu $W_p^{(1)}$ Soboleva)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 5, pp 795-796 (USSR)

ABSTRACT: In the domain Ω with the boundary Γ let the imbedding theorems [Ref 3] be valid (e.g. let Γ be smooth). Let Ω be subdivided by the straight lines $x = x_i$, $i=0,1,\ldots,m-1$, $y = y_j$, $j=0,1,\ldots,n-1$; let δ be the smallest distance between the parallel straight lines of the subdivision. Let a continuous function $F(x,y)$, $(x,y) \in \Omega$ be of bounded p-variation ($p>2$) if the sums

$$\sum_{i,j} \frac{|F(x_i+h,y_j)-F(x_i,y_j)|^p}{h^{p-2}} \quad , \quad \sum_{i,j} \frac{|F(x_i,y_j+h)-F(x_i,y_j)|^p}{h^{p-2}}$$

are bounded from above by a number Φ^p not depending on the subdivision and on $h (h \leq \delta/2)$. It is summed over the points (x_i,y_j) lying in Ω with its δ-neighborhood.

Theorem: In order that a function belongs to the class $W_p^{(1)}$

Card 1/2

On a Necessary and Sufficient Condition that a Function Belong to the Class $W_p^{(1)}$ of Sobolev

SOV/20-121-5-7/50

it is necessary and sufficient that it is of bounded p-variation. There are 3 references, 2 of which are Soviet, and 1 Hungarian.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

PRESENTED: April 19, 1958, by S.L.Sobolev, Academician

SUBMITTED: April 7, 1958

Card 2/2

16(1)

AUTHOR: Krylov, A.L.

SOV/20-124-2-5/71

TITLE: First Boundary Value Problem for Some Quasilinear Equations of Parabolic Type in the Banach Space (Pervaya krayevaya zadacha dlya nekotorykh kvazilineynykh uravneniy parabolicheskogo tipa v banakhovom prostranstve)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 2, pp 264-267 (USSR)

ABSTRACT: Let Ω be a bounded domain of the m-dimensional space $x=(x_1,\ldots,x_m)$ with the boundary Γ consisting of manifolds of m-1, m-2, ..., 1, 0 dimensions. Let $Q = \Omega \times [0,T]$ be a cylinder in the space (x,t). In Q the author considers the equation

$$(1) \qquad u_t - \sum_{i=1}^{m} \frac{\partial}{\partial x_i} \left(F_{u_{x_i}}(u_{x_1},\ldots,u_{x_m})\right) = f(X,t)$$

with the boundary conditions

$$u|_s = 0 \qquad u|_{t=0} = \varphi(x),$$

where $s = \Gamma \times [0,T]$. It is assumed that for Ω and Γ there hold the imbedding theorems of Sobolev, that for a restriction to smooth $u(x,t)$ the functionals $\int_{\Omega} F dx$ and $\int_{Q} F\, dxdt$ are uniformly convex,

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First Boundary Value Problem for Some Quasilinear Equations of Parabolic Type in the Banach Space

SOV/20-124-2-5/71

and that $\sum F_{u_{x_i} u_{x_k}} \cdot \xi_i \xi_k \geq \mu \sum \xi_i^2$, $\mu > 0$. The author proves the existence of a unique generalized solution of (1). The proof is made according to the method of Galerkin supported by considerations of variation.
There are 3 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

PRESENTED: September 1, 1958, by S.L.Sobolev, Academician

SUBMITTED: April 17, 1958

Card 2/2

ZHIDKOV, N.P.; KORNEYCHUK, A.A.; KRYLOV, A.L.; MOSTINSKAYA, S.B.

Plane-parallel motion of a viscous liquid between two rotating cylinders. Vych. mat. i prog. 1:152-166 '62. (MIRA 15:8)
(Fluid dynamics)

KRYLOV, A.L.

Models involving a finite number of degrees of freedom for a certain class of problems in mathematical physics. (Difference systems involving a law of conservation). Dokl. AN SSSR 142 no.3:572-575 Ja '62. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom S.L.Sobolevym.
(Mathematical physics) (Difference equations)

S/020/62/146/001/005/016
B112/B108

AUTHOR: Krylov, A. L.

TITLE: Argument establishing Dirichlet's principle for the first boundary value problem in the non-linear theory of elasticity

PERIODICAL: Akademiya nauk SSSR.. Doklady, v. 146, no. 1, 1962, 54 - 57

TEXT: The problem is to find a displacement vector $u(x)$ which agrees with a given vector ψ at the boundary $D\Omega$ of the domain Ω and which corresponds to the minimum value of the integral $\Pi(u) = \int\int\int_{\Omega} (\varepsilon^2/6k + \int^{\Gamma^2} g(\xi)d\xi)d\Omega$, where k is a constant, ε and Γ^2 are the linear and square invariants of the deformation tensor $\|\varepsilon_{ik}\|$ and of the deviation tensor $\|\varepsilon_{ik} - \delta_{ik}\varepsilon\|$, respectively, and where the function $g(\Gamma^2)$ is defined by the fundamental relations of the non-linear theory of elasticity in the following way: $D_\varepsilon = \psi D_\sigma$, $\psi = f(T)$, $T = 2g(\Gamma^2)\Gamma$. The components of the vector u are connected with those of the deformation

Card 1/2

tensor by the usual relation $\varepsilon_{ik} = (1/2)(\partial u_i/\partial x_k + \partial u_k/\partial x_i)$. The solvability of this problem is shown by means of a solving sequence $u^n \in \overset{\circ}{W}{}^{(1)}_{\beta}$, where β is defined by the representation $g(r^2) = B(r^2)^{(\beta-2)/2}$.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: March 28, 1962, by S. L. Sobolev, Academician

SUBMITTED: March 15, 1962

S/794/62/000/001/006/010

AUTHORS: Zhidkov, N. P., Korneychuk, A. A., Krylov, A. L., Mastinskaya, S. B.

TITLE: The plane-parallel motion of a viscous fluid between rotating cylinders.

SOURCE: Vychislitel'nyye metody i programmirovaniye; sbornik rabot Vychislitel'nogo tsentra Moskovskogo universiteta. no. 1. Ed. by N. P. Trifonov, G. S. Roslyakov, and Ye. A. Zhogolev. [Moscow] Izd-vo Mosk. un-ta, 1962, 152-166.

TEXT: The paper is intended to investigate the motion of a fluid by means of the direct numerical integration of the nonlinear Navier-Stokes equations. The direct objective of the investigation is the case of a viscous incompressible fluid in an x, y, z space contained between two infinite cylinders having radii $R_1^2 \leq x^2 + y^2 \leq R_2^2$ which rotate with different angular velocities. The behavior of the fluid in a plane solution (i.e., independent of z) is to be found. Upon establishment of the necessary matrix expression the solution of the problem on the machine "Strela" at the Computing Center of the Moscow State University is described. The program consists of 4 separate parts, (1) the shaping and the memory formulation of the distribution program, (2) the program of the calculating of coefficients, (3) the program of preparation of the initial data, and (4) the program of the solution of the difference equations.

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The plane-parallel motion of a viscous fluid S/794/62/000/001/006/010

Calculations were made for 4 Reynolds numbers, namely, 200, 500, 1,000, and 2,000, with different timewise steps. It was found that in the largest network employed the eddies smoothened out and the flow became smooth and trivial. The time of establishment grew proportional to the R number. In all probability this network was exceedingly crude and had its own viscosity. The use of a fine network revealed a turbulent motion, if the degree of turbulence is intended to signify the number of eddies in the flow. The amplitude of the perturbations decreases with time, but turbulence grows and new eddies are formed, even though with smaller amplitudes. Ultimately, the motion in the network becomes smooth, since the network does not admit eddies of a size smaller than the dimensions of the network. Future work will comprise a reduction of the size of the network by one-half. Thanks are expressed to I. M. Gel'fond, corresponding member, AS USSR, for overall direction of the work and many valuable specific advices. There are 4 figures and 1 Russian-language Soviet reference.

Card 2/2

ACCESSION NR: AT4006715 S/3043/63/000/002/0165/0173

AUTHOR: Kry*lov, A. L.

TITLE: Finite-dimensional models for equations of mathematical physics

SOURCE: Moscow. Universitet. Vy*chislitel'ny*y tsentr. Sbornik rabot, no. 2, 1963. Chislenny*ye metody* v gazovoy dinamike, 165-173

TOPIC TAGS: finite dimensional model, energy conservation law, Cauchy problem, viscous incompressible fluid model, periodic boundary condition, mathematical physics equation $\frac{\partial}{\partial t}\left(\sum_{i=1}^{m} q_i L^0_{q_i} - L^0\right) + \sum_{j=1}^{n} \frac{\partial}{\partial x_j}\left(\sum_{i=1}^{m} q_i L^j_{q_i} - L^j\right) = 0$

ABSTRACT: A broad class of partial differential equations of mathematical physics possesses the following property: the equations themselves express a law of conservation of certain physical quantities, and, in addition, a supplementary law of conservation arises as a consequence of the realization of the fundamental system (e.g., conservation of energy in crystal optics). Following the work of S. K. Godunov the author examines equations of the type

$$\frac{\partial L^0_{q_i}}{\partial t} + \sum_{j=1}^{n} \frac{\partial L^j_{q_i}}{\partial x_j} = 0, \quad i = 1, 2, \ldots, m, \qquad (1)$$

$$L^k = L^k(q_1, q_2, \ldots, q_m), \quad k = 0, 1, \ldots, n.$$

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The equations of crystal optics and others can be carried over to this form. The law of conservation fulfilled in the solutions of (1) is

(2)

the law of conservation of entropy or energy or, for the irreversible process, the dissipation of energy. The purpose of the present paper is to obtain finite dimensional models for such systems having "point" law energy conservation of type (2). A. N. Kolmogorov first dealt with this, regarding turbulence, for Navier-Stokes equations of a viscous incompressible liquid. It is possible that study of the ergodic properties of such a model would lead to conclusions for the laminar case, although the author knows of no such work. He first lets i=j=1, which gives

$$\frac{\partial}{\partial t} A_q(q) + \frac{\partial}{\partial x} B_q(q) = \frac{\partial}{\partial x}\left(C(q)\frac{\partial q}{\partial x}\right) \qquad (3)$$

(on the right is the dissipation member). For simplicity he examines the problem of Cauchy with periodicity in x:

$$\frac{\partial^k q}{\partial x^k}(t, 0) = \frac{\partial^k q}{\partial x^k}(t, l), \qquad k = 0; 1 \qquad (4)$$

ACCESSION NR: AT4006715

Similarly, it should be possible to examine other boundary conditions and the case of an unrestricted x decreasing towards infinity. Transforming (3) and utilizing (4), an identity is established (the law of dissipation of energy). A finite-dimensional model of problem (3), (4), is constructed to permit similar transformations on a difference equation approximating (3). This is done by dividing the interval of periodicity into uniform segments and defining the desired functions q^k, their derivatives, and the derivatives of their functions at the division points. The transformation of equation (3) by approximation is described in detail. For general systems of the type:

$$\frac{\partial L^0 q_l}{\partial t} + \sum_{j=1}^{n} \frac{\partial U_{q_l}}{\partial x_j} = \sum_{j,l,s} \frac{\partial}{\partial x_j} b_{ll}^{js} \frac{\partial q_l}{\partial x_s}, \qquad l = 1, 2, \ldots, m \qquad (5)$$

with symmetry and positively defined matrices, the constructions are carried through in the same fashion. Unfortunately, for more than one space variable, only a tetrahedral grid can be established. With reasoning similar to this, V. I. Lebedev was the first to use such a grid for the same goal. For simplicity, two space variables are considered. The differential operators are defined and discussed and the establishment of the grid system is described in detail. The results of applying this to equation (5) are given. Finally, the author examines the solution of the Navier-Stokes equation for viscous incompressible liquids. The author concludes that finite dimensional models probably can be used for sett-

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ACCESSION NR: AT4006715

ing down difference schemes with the same properties. He points out that, in the works of A. N. Tikhonov and A. A. Samarskiy, such schemes are constructed and studied for a very broad class of ordinary differential equations. Orig. art. has: 28 formulas.

ASSOCIATION: Vy*chislitel'ny*y tsentr MGU (Computer center, Moscow State University)

SUBMITTED: 00	DATE ACQ: 16Dec63	ENCL: 00
SUB CODE: AI	NO REF SOV: 003	OTHER: 000

Card 4/4

ACCESSION NR: AT4006716 S/3043/63/000/002/0174/0181

AUTHOR: Kry*lov, A. L.; Proizvolova, Ye. K.

TITLE: Numerical study of flow between two rotating cylinders

SOURCE: Moscow. Universitet. Vy*chislitel'ny*y tsentr. Sbornik rabot, no. 2, 1963, Chislenny*ye metody* v gazovoy dinamike, 174-181

TOPIC TAGS: viscous incompressible flow, flow between rotating cylinders, flow equation numerical solution, finite difference approximation, successive approximation method, flow stability, axisymmetric flow, viscous flow, incompressible fluid, viscous incompressible fluid, viscous flow, incompressible flow, curved flow, recurrence formula

ABSTRACT: The authors have calculated the behavior of a streamlined flow of a viscous incompressible fluid between coaxial cylinders of infinite height, rotating at angular velocities Ω_1 and Ω_2, in relation to definite relationships between Reynold's numbers Re_1 and Re_2. The flow is assumed to be periodic in relation to height and asymmetric. The phenomena discussed occur within the Reynold's number range of 100 to 200. The problem was postulated in such a manner that the Reynold's number was governed by the non-dimensional viscosity factor ν. The authors attempted to clarify the periodic patterns possible at a fixed Reynold's

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number ($\nu = 1/200$) and, particularly, to establish the presence of more intensive frequencies in a spectrum component which is unstable with respect to infinitely small turbulences. Calculations were made for the variants:

$$\nu = \frac{1}{200}; \quad H = l, 2l, 4l, \quad \left(l = \frac{\pi}{3,2}\right)$$

Results are illustrated by several graphs (see Figs. 1, 2, 3 and 4 in the Enclosure). "In conclusion, we express our gratitude to I. M. Gel'fand, whose influence and participation were evident in originating theoretical solutions to problems on the stability of flow of viscous fluids, as well as to S. B. Mostinskaya and Yu. Gormatyuk for their participation in programming." Orig. art. has: 4 graphs and 9 formulas.

ASSOCIATION: Vy*chislitel'ny*y tsentr MGU (Computer center, Moscow State University)

SUBMITTED: 00 DATE ACQ: 16Dec63 ENCL: 04

SUB CODE: AI NO REF SOV: 003 OTHER: 001

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Card

ACCESSION NR: AT4006717 S/3043/63/000/002/0182/0189

AUTHOR: Kry*lov, A. L.; Misnik, A. F.

TITLE: Stability of viscous flow between two rotating cylinders

SOURCE: Moscow. Universitet. Vy*chislitel'ny*y tsentr. Sbornik rabot, no. 2, 1963. Chislenny*ye metody* v gazovoy dinamike, 182-189

TOPIC TAGS: viscous flow stability, flow between rotating cylinders, Taylor flow equation, viscous incompressible flow, finite difference method, neutral curve equation, flow equation integration, viscous fluid, incompressible fluid, viscous incompressible fluid, flow stability equation, flow equation spectral property, viscous flow, incompressible flow, Taylor flow, curved flow stability

ABSTRACT: The article presents the results of numerical integration of the Orr-Sommerfeld equations for Taylor's flow. This concerns a flow of incompressible fluid between concentrically rotating cylinders of infinite height. The concepts of critical Reynold's number and neutral curve are defined. The latter was plotted in a plane $(R, \mathcal{N})$, where R is the Reynold's number of a streamline flow and $\mathcal{N}$ is the frequency of stability loss, while turbulence is written as $f(r)e^{ct+i\mathcal{N}z}$ (see graph in the Enclosure). Calculations were carried out on a "Strela" computer at the Vy*chislitel'ny*y tsentr MGU (Computer center of Moscow State

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University). It was found that the equation for stability of a Taylor flow exhibits spectral characteristics which differ strongly from those of the corresponding equation for a Poiseuille flow. Orig. art. has: 1 table, 1 graph, 6 formulas.

ASSOCIATION: Vy*chislitel'ny*y tsentr MGU (Computer center, Moscow State University)

SUBMITTED: 00 DATE ACQ: 16Dec63 ENCL: 01

SUB CODE: AI NO REF SOV: 000 OTHER: 005

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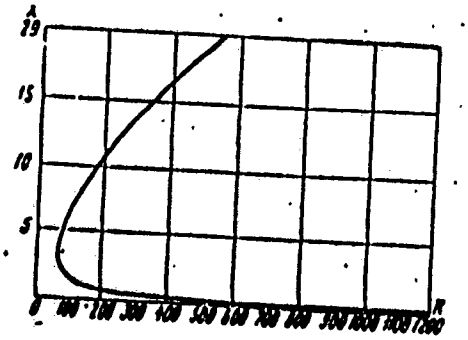
ACCESSION NR: AT4006717

ENCLOSURE: 01



Card 3/3

S/020/63/148/001/001/032
B172/B186

AUTHORS: Arnol'd, V. I., Krylov, A. L.

TITLE: Uniform distribution of points on a sphere and some ergodic properties of the solutions to ordinary linear differential equations

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 1, 1963, 9 - 12

TEXT: Δ denotes an arbitrary domain on a sphere S^2; x is a point of S^2. Rotations A,B of S^2 are considered. The points

$$x; Ax, Bx; A^2x, ABx, BAx, B^2x; \ldots \quad (1)$$

are uniformly distributed on S^2 if

$$\lim_{n\to\infty} \frac{p_n(\Delta)}{2^n} = \frac{\text{mes } \Delta}{\text{mes } S^2}$$

where $p_n(\Delta)$ is the number of points of the sequence $A^n x$, $A^{n-1}Bx$, $A^{n-2}BAx$, ... $B^n x$ lying in Δ. If the points (1) are every-

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where dense on S^2, then their distribution on S^2 is uniform. This theorem may be understood as an ergodic hypothesis in which a semi-group with two generatrices plays the role of time. The authors generalize this theorem; S^2 is replaced by a homogeneous space on which a compact Lie group is defined, whereas a free group with two generatrices or a group with three generatrices a,b,c, for which abc=e is valid, is taken as "time". Then, sets of linear differential equations

$$\frac{dx}{dz} = A(z)x$$ are considered

(z = a complex variable, x = a vector $(x, \ldots, x_n)$ of the n-dimensional complex space, A = a matrix which, except for three singular points lying on a Riemann sphere, depends analytically on z). The following theorem is formulated: If the monodromic group of such a system is bounded, then the system has a unique first integral $(B(z)x,\overline{x}) = \text{const}$, where B(z) is a positive definite, self-adjoint matrix. For Gauss' hypergeometric equation, the assumption of this theorem is fulfilled. Arising from this, the authors mention finally a number of unsolved problems.

Uniform distribution of... S/020/63/148/001/001/032
B172/B186

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: June 23, 1962, by A. N. Kolmogorov, Academician

SUBMITTED: June 18, 1962

Card 3/3

KRYLOV, A.L.

Proof of the instability of a certain flow of a viscous incompressible fluid. Dokl. AN SSSR 153 no.4:787-789 D '63.
(MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom A.N. Kolmogorovym.

KRYLOV, A.L. (Moscow)

"Some of problems stability of viscous fluid flow".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - Feb 64.

KRYLOV, A.L.

Stability of Poiseuille flow in a plane channel. Dokl. AN SSSR '59 no.5:978-981 D '64 (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet. Predstavlen akademikom A.N. Kolmogorovym

L 00362-66 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1)
ACCESSION NR: AT5013285 UR/3043/65/000/004/0108/0114

AUTHOR: Krylov, A. L.

TITLE: Proof of the instability of Kuetta flow between rotating cylinders

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 4, 1965. Chislennyye metody v gazovoy dinamike (Numerical methods in gas dynamics), 108-114

TOPIC TAGS: Kuetta flow, laminar flow, cylindric flow, flow analysis

ABSTRACT: The flow of a viscous incompressible fluid between rotating coaxial cylinders is one of the most intensively and successfully studied problems concerning cases of loss of stability of laminar stationary flow and a subsequent transition to another laminar stationary flow. The problem concerning the stability of the laminar Kuetta flow reduces to the question of the existence in the system

$$(L-\lambda^2-\sigma R\tilde{\omega})u=2\lambda^2 R\omega v,$$
$$(L-\lambda^2-\sigma R)v=-\chi' u$$

with the boundary condition

$$u=v=\frac{du}{dr}=0 \qquad r=R_l\ (l=1,2)$$

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ACCESSION NR: AT5013285

of an eigenvalue $\zeta(R, \lambda)$ in the right half-plane Re $\zeta > 0$. Here

$$L = \frac{d}{dr}\frac{1}{r}\frac{d}{dr}r, \quad R_1 < r < R_2,$$

and $R > 0$ is the Reynolds number; $\lambda > 0$. Taylor solved this problem numerically in 1923. The present paper brings a mathematically rigorous solution to the problem. Orig. art. has: 22 formulas.

ASSOCIATION: Vychislitel'nyy tsentr, Moskovskiy universitet (Computer Center, Moscow University)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME, MA

NO REF SOV: 006 OTHER: 002

KHYLOV, A.M.

"Treatment of the necrosis of soft cartilage."

SO: Vet. 27 (8) 1950, p. 47

KRYLOV, A.M.; SHIFRIN, A.M., inzh.

Over-all mechanization in tempering shops. Mashinostroitel' no.10:1-5 O '57. (MIRA 10:11)
(Automatic control) (Tempering) (Sverdlovsk--Bearing industry)

KRYLOV, A.M.

Use of LSD disinfection units in Voronezh Province. Veterinariia 35 no.4:71-72 Ap '58. (MIRA 11:3)

1. Nachal'nik veterinarnogo otdela Voronezhskogo oblastnogo upravleniya sel'skogo khozyaystva.
(Disinfection and disinfectants)

KRYLOV, A N

PHASE I BOOK EXPLOITATION SOV/4188

Alekseyev, Valentin Petrovich, Nikolay Ivanovich Kostygov, Mikhail Georgiyevich Kruglov, Aleksey Nikolayevich Krylov, Oleg Borisovich Leonov, and Georgiy Nikolayevich Mizernyuk

Dvigateli vnutrennego sgoraniya; opisatel'nyy kurs (Internal Combustion Engines; Descriptive Course) Moscow, Mashgiz, 1960. 451 p. 15,000 copies printed.

Ed. (Title page): A. S. Orlin, Professor; Ed. (Inside book): L. I. Yegorkina; Managing Ed. for Literature on Automotive, Tractor, and Agricultural Machine Building: I. M. Bauman, Engineer; Tech. Eds.: B. I. Model' and T. F. Sokolova.

PURPOSE: This textbook is intended for students at machine-building schools of higher education, and for personnel engaged in the production and operation of internal-combustion engines.

COVERAGE: The book describes the construction and operation of all the main types of reciprocating internal-combustion engines, and of individual

Card 1/8

systems and mechanisms used in them. The book corresponds to the program of the course on "Internal-Combustion Engines" at the Moscow Higher Technical Institute imeni N. Ye. Bauman. V. P. Alekseyev wrote chapters V and VI; N. I. Kostygov, the introduction, section 2 of chapter I, and chapters II, III and IV; M. G. Kruglov, chapter VII (except sections 40 and 42), section 57 of chapter X, and chapters XII and XIII; A.N. Krylov, chapter VIII, and sections 40 and 42 of chapter VII; O. B. Leonov, section 1 of chapter I, and chapter IX; G. N. Mizernyuk, chapters X (except section 57) and XI. The authors thank Professor D. N. Vyrubov. There are 38 references: 35 Soviet, 2 English and 1 French.

TABLE OF CONTENTS:

KRYLOV, A.N., starshiy prepodavatel'

Determining mechanical efficiency of an internal combustion engine by the running-out method. Izv.vys.ucheb.zav.; mashinostr. no.4:212-216 '62. (MIRA 15:7)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche imeni Baumana.
(Gas and oil engines—Testing)

KRYLOV, A. P., Candidate of Biological Sciences, All-Union Academy of Agricultural Sciences imeni V. I. Lenin

"New Forms of Soya from Slowly Swollen Seed"

Doklady Vsesoyuz Ordena Lenina Akademii Sel'skokhozyaystvennykh Nauk imeni V.I. Lenina Vol 1, 1956 , pp 13-15

USSR / Human and Animal Pathology. Nervous System. S-2
Central Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64758.

Author : Krylov, A. P.
Inst : Kishinev State Medical Institute.
Title : Morphological Changes in the Cerebrum in Primary Tuberculosis.

Orig Pub: Tr. Kishinevsk. gos. med. in-ta, 1956, 5, 307-312.

Abstract: A study was made of the cerebrum in patients who died of primary tuberculosis. The nerve cells of the II and III layers of the cortex of the precentral area suffer the most pronounced changes. The changes in the cells of the Ammon's horn, the optic tubercle, and the hypothalamic area also have a prevailing character. However, in the hy-

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KRYLOV, A.P.

24(3) PHASE I BOOK EXPLOITATION SOV/1643

Avayev, Sergey Aleksandrovich, Andrey Pavlovich Krylov, and Boris Mikhaylovich Ozerskiy

Obshchaya elektrotekhnika (General Electrical Engineering) Moscow, Gosenergoizdat, 1959. 447 p. 100,000 copies printed.

Ed. (Title page): S.A. Avayev; Ed. (Inside book): M.P. Leplinskiy; Tech. Ed.: K.P. Voronin.

PURPOSE: This book was approved by the Main Administration of Specialized Secondary Schools, Ministry of Education, USSR, as a textbook for tekhnikums other than those specializing in electrical engineering.

COVERAGE: The book contains basic information on the concept of the electric field, conductors, dielectrics, semiconductors, capacitors, d-c circuits, magnetism, single-phase a-c circuits, three-phase circuits, electrical measuring instruments, d-c machines, transformers, induction motors, converters and

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amplifiers, electronic components, electric drives, electric lighting, electric power stations, substations and networks. The book also provides review questions and exercises and contains a number of laboratory experiments. The authors thank Professor B.A. Teleshev and the faculty of the Moskovskiy stankostroitel'nyy tekhnikum for their assistance and Engineer M.P. Leplinskiy for editing the manuscript. There are no references.

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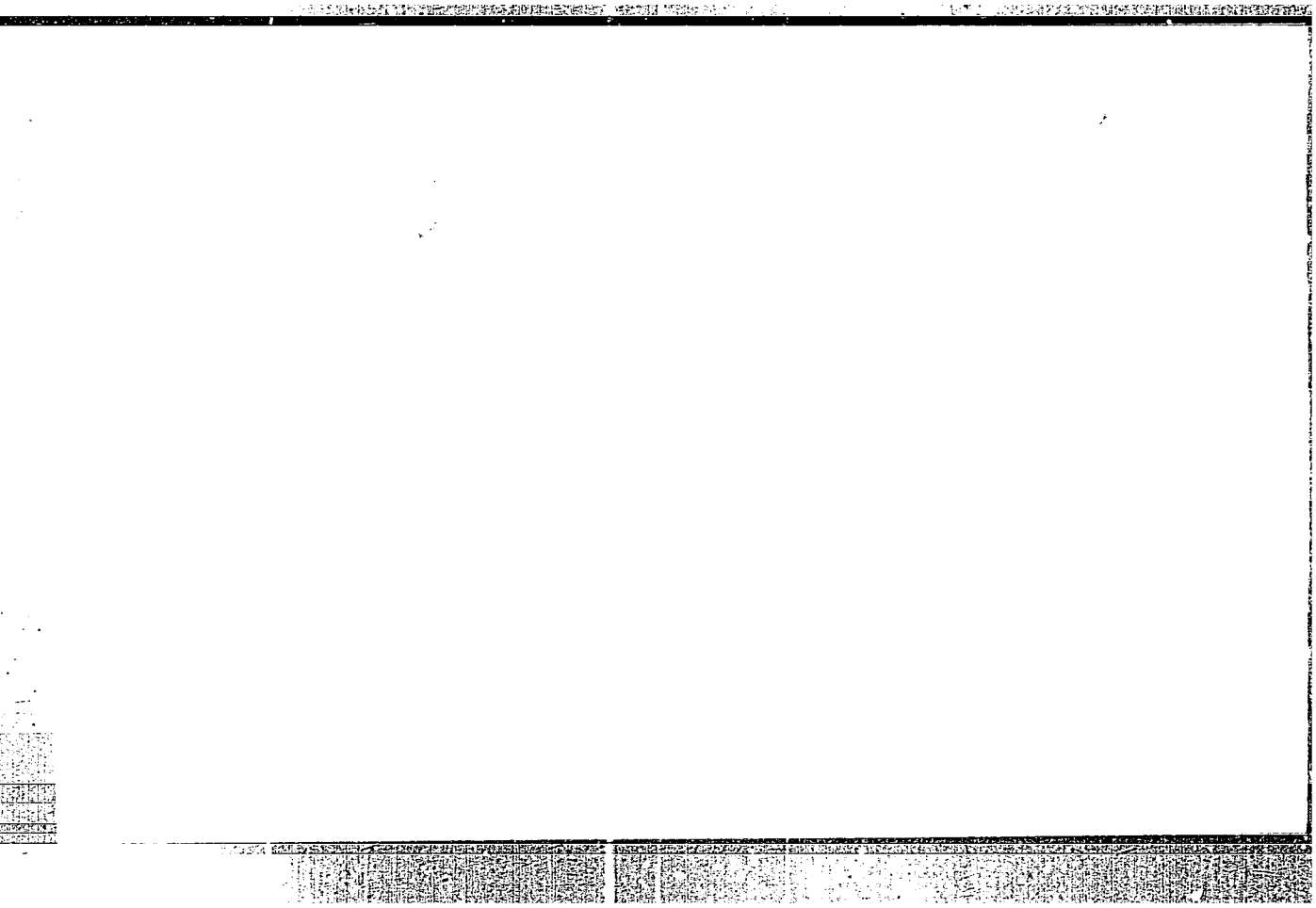

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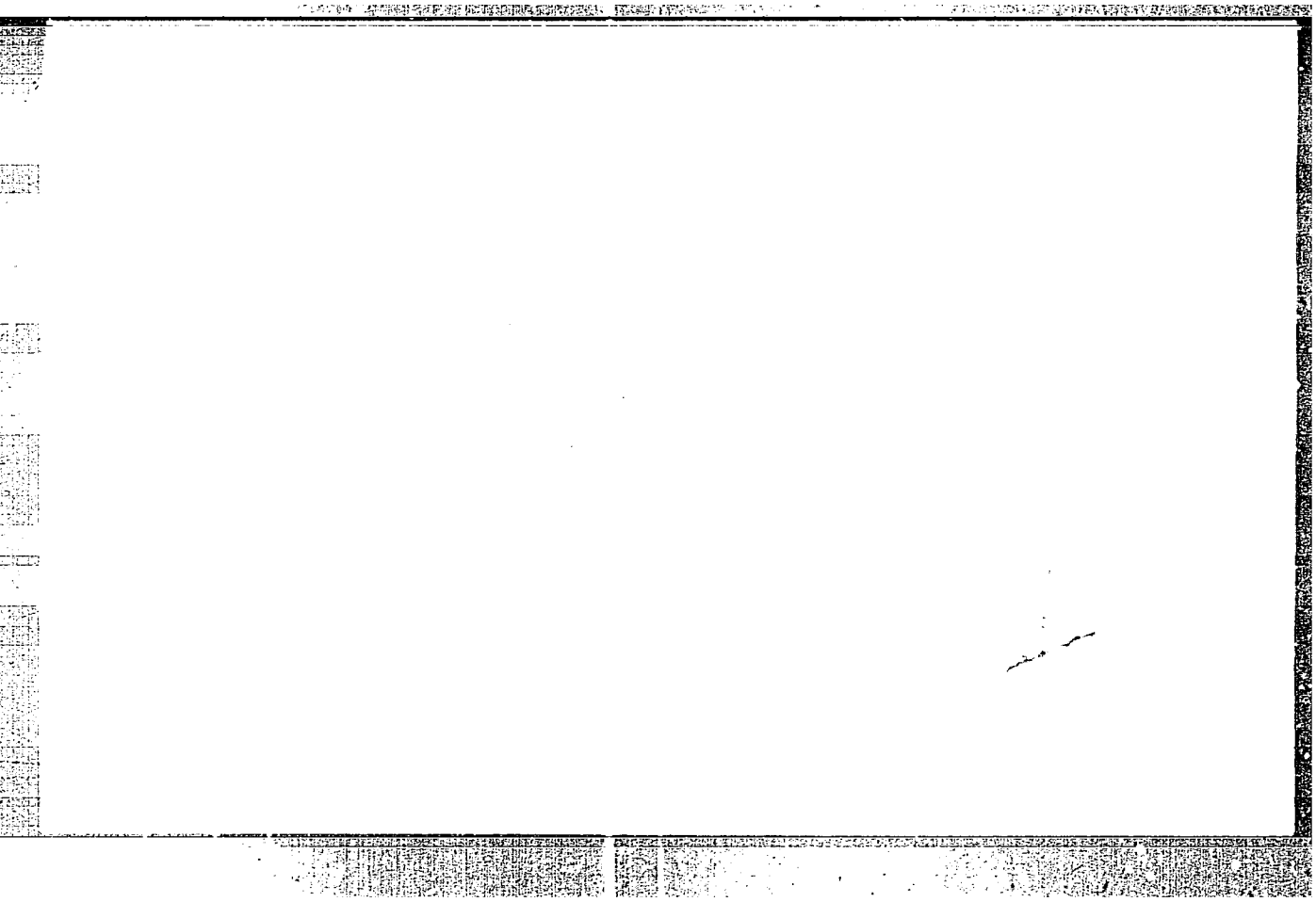

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To avoid having falling plastic pressure affect the output of a well, it is necessary to decrease the fact pressure correspondingly. Thus the depression remains more or less constant. This is brought about fairly easily in wells requiring deep pumping. Author explains the basic principles of new-type coupling for pumps which do not operate in deep wells. This new-

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type apparatus has given very satisfactory service even under conditions where foreign material was introduced into the bore.

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